

## Abstract

[0037] The invention is directed to a regulating device for a hydraulic system by which a valve (3) controlling a consumer can be controlled or regulated, wherein a bus (1) and bus interfaces (4) are arranged between a job computer (2) and the valve (3). At least one sensor (5), whose signal is to be taken into account in controlling or regulating the consumer, is associated with the consumer. According to the invention, an autonomous controlling and regulating element (10) is arranged between the bus (1) and the valve (3) and is outfitted with a bus interface (4), a microcontroller (11) connected to the latter, and at least one analog-to-digital converter (12) to which the sensor (5) can be connected. The sensor (5) is an analog sensor. The invention keeps the load on the bus (1) small so that security problems can be avoided also in time-critical controls in the areas pertaining to security.